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1638

PTO/SB/21 (09-04)

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Total Number of Pages in This Submission

Application Number	10/088,634
Filing Date	March 20, 2002
First Named Inventor	Pal Maliga
Art Unit	1638
Examiner Name	Ashwin D. Mehta
Attorney Docket Number	1594-RUT.00-0038US

ENCLOSURES (Check all that apply)

- ☒ Fee Transmittal Form
 - ☒ Fee Attached
- ☐ Amendment/Reply
 - ☐ After Final
 - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement

- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/
Incomplete Application
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under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
 - ☐ Petition to Convert to a
Provisional Application
 - ☐ Power of Attorney, Revocation
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Firm Name	Dann Dorfman Herrell & Skillman, Customer No. 000110		
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Printed name	Kathleen D. Rigaut, Ph.D., J.D.		
Date	September 28, 2005	Reg. No.	43,047

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FEE TRANSMITTAL

Complete if known

Application Number: 10/088,634

Filing Date: October 16, 2002

First Named Inventor: Pal Maliga, et al.

Group Art Unit: 1638

Examiner Name: Ashwin D. Mehta

Total Amt. of Payment: (1)+(2)+(3)= **\$180**

Attorney Docket Number: 1594-RUT.00-0038US

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\$180

Recording each patent assignment per property

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Other fee (specify)

SUBTOTAL (3) \$180

2. Claims

Paid Extra Fee

Total Claims - 20 = 0 x 25 =

Independent Claims - 3 = 0 x 100 =

Multiple Dependent

(First presentation)

SUBTOTAL (2) \$0

Submitted By:

Typed or

Printed Name Kathleen D. Rigaut, Ph.D., J.D.

Reg. Number 43,047

Signature Kathleen D. Rigaut

Date September 28, 2005

Deposit Account User ID

04-1406



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of **Pal Maliga, et al.**
Application No. 10/088,634
Attorney Docket No. 1594-RUT.00-0038US
Filed: October 16, 2002
For: SITE SPECIFIC RECOMBINATION SYSTEMS TO
MANIPULATE THE PLASTID GENOME OF HIGHER
PLANTS
Examiner: Ashwin D. Mehta
Group Art Unit: 1638

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September 28, 2005
Date

Janice M. Nightlinger
Janice M. Nightlinger

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97**

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith 3 pages of Form PTO-1449 and copies of the references listed thereon. This Information Disclosure Statement is being filed more than three months after the filing date of this application, and after receipt of the first Official Action on the merits, but before receipt of a Final Official Action or a Notice of Allowance. Accordingly, the fee of \$180.00 required under 37 C.F.R. 1.97(c) is enclosed. In the event the fee is incorrect, the Commissioner is authorized to debit or credit the Applicants' attorney's Deposit Account No. 04-1406. A duplicate copy of the Fee

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In the opinion of the undersigned, the references submitted herewith are the most pertinent of which the undersigned is aware. However, no representation is made or intended that more pertinent references do not exist.

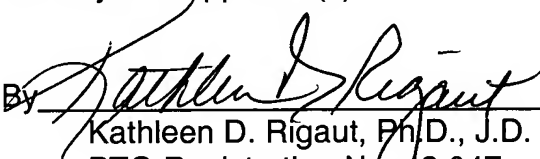
This submission is not an admission that the references listed on the attached Form PTO-1449 constitute prior art against the claims of this application.

The Examiner is respectfully requested to confirm receipt and consideration of the cited reference by initialing and returning a copy of the attached Form PTO-1449 in accordance with MPEP §609.

Early and favorable consideration of this application is respectfully requested.

Respectfully submitted,

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)

By 
Kathleen D. Rigaut, Ph.D., J.D.
PTO Registration No. 43,047

Telephone: (215) 563-4100
Facsimile: (215) 563-4044
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	3
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Complete if Known

Application Number	10/088,634
Filing Date	March 20, 2002
First Named Inventor	Pal Maliga
Art Unit	1638
Examiner Name	Ashwin D. Mehta
Attorney Docket Number	1594-RUT.00-0038US

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Date
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/088,634
		Filing Date	March 20, 2002
		First Named Inventor	Pal Maliga
		Art Unit	1638
		Examiner Name	Ashwin D. Mehta
Sheet 2	of 3	Attorney Docket Number 1594-RUT.00-0038US	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	KHAN, M.S. "Fluorescent antibiotic resistance marker for tracking plastid transformation in higher plants"; Nature Biotechnology, 17: 910-915 (1999)	
	C2	DALE, E.C. "Gene transfer with subsequent removal of the selection gene from the host genome"; Proc. Natl. Acad. Sci. USA, 88: 10558-10562 (1991)	
	C3	SRIVASTAVA, V. "Single-copy transgenic wheat generated through the resolution of complex integration patterns"; Proc. Natl. Acad. Sci. USA, 96: 11117-11121 (1999)	
	C4	LE, Y. "Nuclear targeting determinants of the phage P1 Cre DNA recombinase"; Nucleic Acids Research, 27(24): 4703-4709 (1999)	
	C5	LYZNIK, L.A. "Activity of yeast FLP recombinase in maize and rice protoplasts"; Nucleic Acids Research, 21(4): 969-975 (1993)	
	C6	LYZNIK, L.A. "FLP-mediated recombination of FRT sites in the maize genome"; Nucleic Acids Research, 24(19): 3784-3789 (1996)	
	C7	ZOUBENKO, O.V. "Efficient targeting of foreign genes into the tobacco plastid genome"; Nucleic Acids Research, 22(19): 3819-3824 (1994)	
	C8	LOVE, J. "Stringent control of transgene expression in Arabidopsis thaliana using the Top10 promoter system"; The Plant Journal, 21(6): 579-588 (2000)	
	C9	SERINO, G. "A negative selection scheme based on the expression of cytosine deaminase in plastids"; The Plant Journal, 12(3): 697-701 (1997)	
	C10	LYZNIK, L.A. "Heat-inducible expression of FLP gene in maize cells"; The Plant Journal, 8(2): 177-186 (1995)	

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/088,634
Filing Date	March 20, 2002
First Named Inventor	Pal Maliga
Art Unit	1638
Examiner Name	Ashwin D. Mehta
Attorney Docket Number	1594-RUT.00-0038US

Sheet

3

of

3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C11	SOLL, J. "Protein translocation into and across the chloroplastic envelope membranes"; Plant Molecular Biology, 38: 191-207 (1998)	
	C12	ADAMS, D. "Cre-lox Recombination in Escherichia coli Cells Mechanistic Differences from the in Vitro Reaction"; J. Mol. Biol., 226: 661-673 (1992)	
	C13	CRAIG, N.L. "The Mechanism of Conservative Site-Specific Recombination"; Annu. Rev. Genet., 22: 77-105 (1988)	
	C14	LICHTENSTEIN, C. "Prospects for reverse genetics in plants using recombination"; Plant Molecular Biology, 21: v-xii (1993)	
	C15	LUBBEN, T.H. "Chloroplast import characteristics of chimeric proteins"; Plant Molecular Biology; 12: 13-18 (1989)	
	C16	RUSSELL, S.H. "Directed excision of a transgene from the plant genome"; Mol Gen Genet, 234: 49-59 (1992)	
	C17	TIMKO, M.P. "Structure and Expression of Nuclear Genes Encoding Polypeptides of the Photosynthetic Apparatus"; Mol Biol of the Photosynthetic Apparatus, 381-396 (1985)	
	C18	TIMMERMANS, M.C.P. "The pFF plasmids: cassettes utilising CaMV sequences for expression of foreign genes in plants"; Journal of Biotechnology, 14: 333-344 (1990)	
	C19	WASMANN, C.C. "The importance of the transit peptide and the transported protein for protein import into chloroplasts"; Mol Gen Genet, 205: 446-453 (1986)	

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SignatureDate
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